**Steadman, David**

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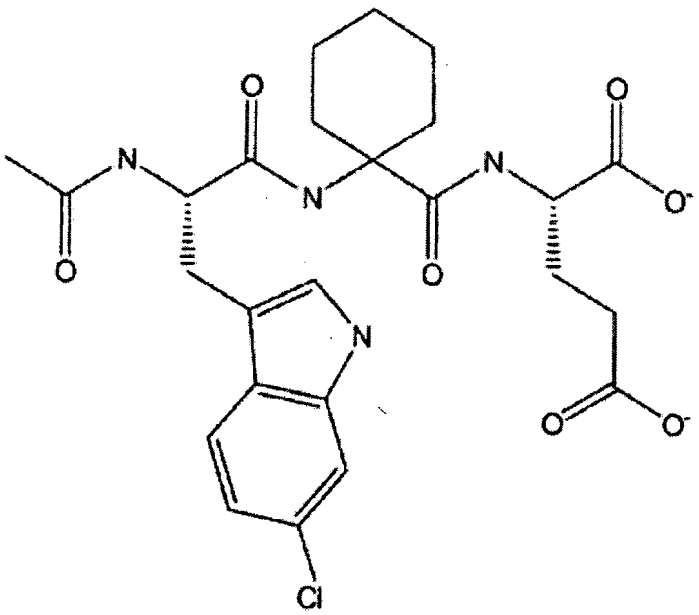
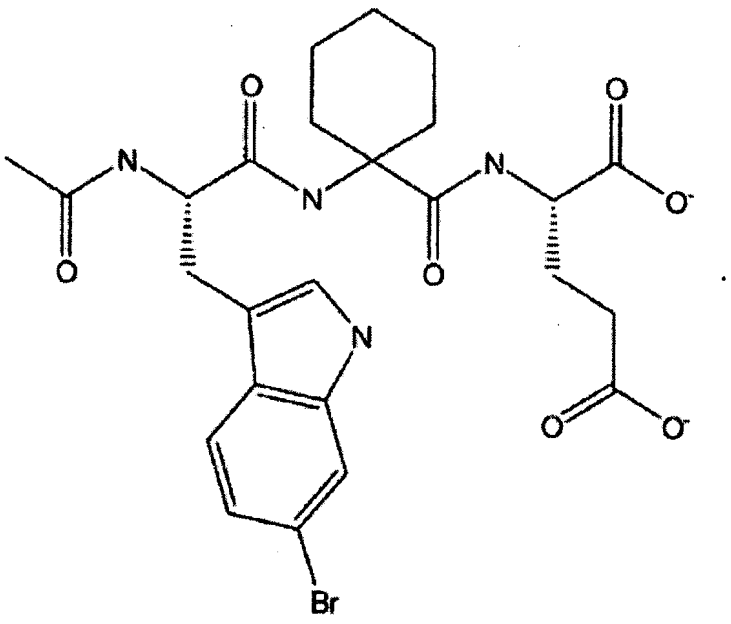
**From:** Steadman, David
**Sent:** Friday, October 19, 2007 11:44 AM
**To:** STIC-EIC1600/2900
**Subject:** 10/822,254 structure search request

NAME: David Steadman
AU: 1656
Date: 10/19/07
Office: Remsen 2D11
Mailbox: Remsen 3C70

Please search the following two (2) structures in STN:






Thank you very much.

David

David J. Steadman, Ph.D.
Primary Examiner
Art Unit 1656
Protein Crystallography and Recombinant Enzymes
Office: Remsen 2B05
Mailbox: Remsen 3C70
Phone: (571) 272-0942

FILE 'REGISTRY' ENTERED AT 14:47:48 ON 19 OCT 2007


Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 OCT 2007 HIGHEST RN 950981-10-9
DICTIONARY FILE UPDATES: 18 OCT 2007 HIGHEST RN 950981-10-9

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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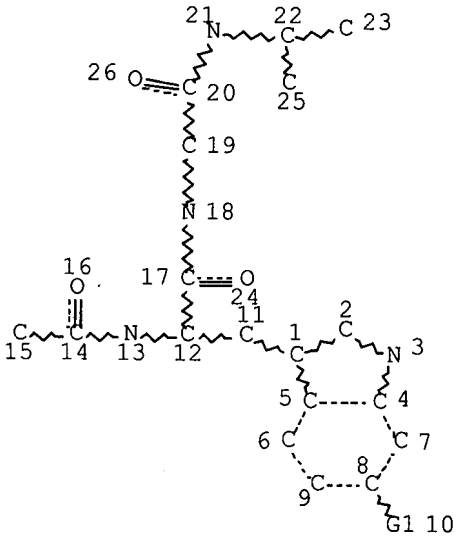
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

L1 STR




VAR G1=CL/BR
NODE ATTRIBUTES:
NSPEC IS R AT 19
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE
L3 2 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 418 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FILE 'CAPLUS' ENTERED AT 14:47:49 ON 19 OCT 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 19 Oct 2007 VOL 147 ISS 18
FILE LAST UPDATED: 18 Oct 2007 (20071018/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

L4 1 S L3

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:140668 CAPLUS Full-text
DOCUMENT NUMBER: 142:235231
TITLE: Soluble, stable form of human Double Minute 2 protein, hdm2, amenable to crystallization and use for structure-based drug design
INVENTOR(S): Taremi, Shahriar Shane; Xie, Gaolian; Hesson, Thomas; Duca, Jose S.; Strickland, Corey; Windsor, William T.; Madison, Vincent S.; Zhang, Rumin; Reichert, Paul
PATENT ASSIGNEE(S): Schering Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 49 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
|---|---|---|---|---|---|
| US 2005037383 | A1 | 20050217 | US 2004-822254 | | 20040409 |
| PRIORITY APPLN. INFO.: | | | US 2003-461787P | P | 20030410 |
| | | | US 2004-547265P | P | 20040224 |

AB The present invention relates to a soluble and stable form of human Double Minute 2 protein, Hdm2. The present invention further pertains to nucleic acids encoding these proteins. The present invention also relates to a process of obtaining specific samples of Hdm2 that are amenable to forming homogeneous crystals for x-ray crystallization anal. and the crystals formed thereby. The present invention also pertains to methods of using the x-ray

diffractable crystals in structure-based drug design to identify compds. that can modulate the activity of the protein. The present invention provides modified Hdm2 proteins that are amenable to crystallization and are soluble in E. coli exts. The present invention further discloses a set of amino acid substitutions of the Hdm2 protein that improve its solubility and/or stability without compromising its ability to bind p53. The present invention provides stable modified Hdm2 proteins produced by introducing an amino acid substitution into one or more of a unique set of amino acid residues of Hdm2. The modified Hdm2 proteins of the present invention have an improved solubility and form novel crystals that heretofore were unattainable with the wildtype Hdm2 protein. In addition, the present invention provides two specific ligands for Hdm2, the acetylated tripeptides, Ac-6ClWAC3cE and Ac-6BrWAC3cE. These tripeptides can be used to bind the modified Hdm2 proteins of the present invention to form a protein-ligand complex that is then crystallized Such x-ray diffractable crystals can be used for structure based drug design to identify antitumor drugs.

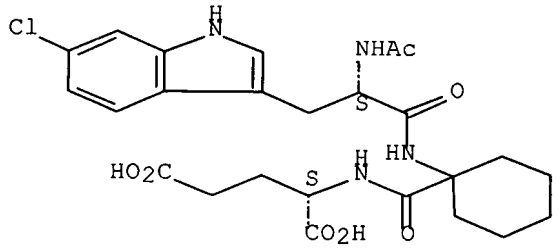
IT **844901-80-0 844901-81-1**

RL: BSU (Biological study, unclassified); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses)
(modified Hdm2 protein complexed to; soluble, stable form of human Double Minute 2 protein, hdm2, amenable to crystallization and use for structure-based drug design)

RN 844901-80-0 CAPLUS

CN L-Glutamic acid, N-acetyl-6-chloro-L-tryptophyl-1-aminocyclohexanecarbonyl- (9CI) (CA INDEX NAME)

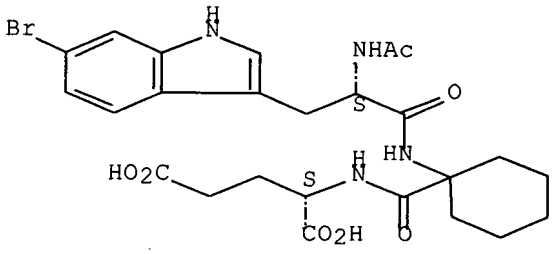
Absolute stereochemistry.




RN 844901-81-1 CAPLUS

CN L-Glutamic acid, N-acetyl-6-bromo-L-tryptophyl-1-aminocyclohexanecarbonyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.




FILE 'CAOLD' ENTERED AT 14:47:49 ON 19 OCT 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

L5 0 L3

FILE 'MEDLINE' ENTERED AT 14:48:04 ON 19 OCT 2007

FILE 'BIOSIS' ENTERED AT 14:48:04 ON 19 OCT 2007


FILE 'EMBASE' ENTERED AT 14:48:04 ON 19 OCT 2007


L6 0 L3

FILE 'MARPAT' ENTERED AT 14:48:08 ON 19 OCT 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


FILE CONTENT: 1961-PRESENT VOL 147 ISS 16 (20071012/ED)

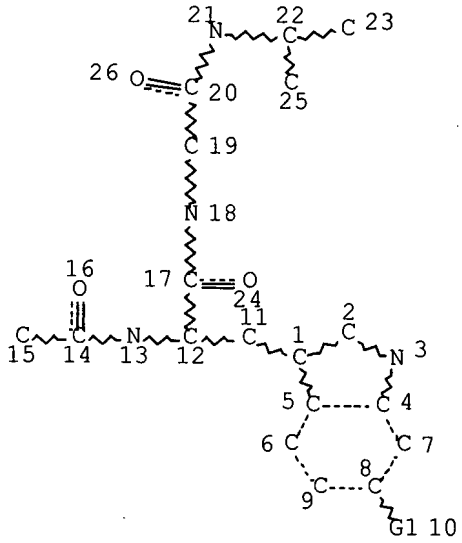
SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1961-1987

MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

| | | |
|---|---|---|
| US | 2007207949 | 06 SEP 2007 |
| DE | 102006007895 | 30 AUG 2007 |
| EP | 1826829 | 29 AUG 2007 |
| JP | 2007221039 | 30 AUG 2007 |
| WO | 2007101371 | 13 SEP 2007 |
| GB | 2435041 | 15 AUG 2007 |
| FR | 2897532 | 24 AUG 2007 |
| RU | 2304584 | 20 AUG 2007 |
| CA | 2537669 | 24 AUG 2007 |

Expanded G-group definition display now available.

L1 STR



VAR G1=CL/BR
NODE ATTRIBUTES:
NSPEC IS R AT 19
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

ATTRIBUTES SPECIFIED AT SEARCH-TIME:
ECLEVEL IS LIM ON ALL NODES
ALL RING(S) ARE ISOLATED

L8 1 SEA FILE=MARPAT SSS FUL L1 (MODIFIED ATTRIBUTES)

100.0% PROCESSED 3042 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.05

FILE 'CAPLUS' ENTERED AT 14:49:04 ON 19 OCT 2007
L9 1 S L8
L10 1 S L9 NOT L4

FILE 'MARPAT' ENTERED AT 14:49:17 ON 19 OCT 2007
L11 1 S L10

L11 ANSWER 1 OF 1 MARPAT COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 143:410915 MARPAT Full-text
TITLE: Peptides for inhibiting mdm2 function and use for anticancer and antiviral therapy
INVENTOR(S): Han, Kyou-Hoon; Chi, Seung-Wook; Kim, Hyun-Jeong; Lee, Si-Hyung; Ahn, Min-Jung; Kim, Do-Hyoung; Kim, Jae-Sung; Park, Shin-Ae
PATENT ASSIGNEE(S): Korea Research Institute of Bioscience and Biotechnology, S. Korea
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2005097820 | A1 | 20051020 | WO 2004-KR3494 | 20041229 |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

| | | | | |
|---|---|---|---|---|
| KR 2005098766 | A | 20051012 | KR 2005-931 | 20050105 |
| PRIORITY APPLN. INFO.: | | | KR 2004-23565 | 20040406 |

AB The invention provides peptides for inhibiting mdm2 (mouse double minute 2). The invention also relates to the use of mdm2 inhibiting peptides for anticancer and antiviral therapy.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

FILE 'CAPLUS' ENTERED AT 14:49:43 ON 19 OCT 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE 'MEDLINE' ENTERED AT 14:49:43 ON 19 OCT 2007

FILE 'BIOSIS' ENTERED AT 14:49:43 ON 19 OCT 2007


FILE 'EMBASE' ENTERED AT 14:49:43 ON 19 OCT 2007


FILE 'WPIX' ENTERED AT 14:49:43 ON 19 OCT 2007


FILE 'JAPIO' ENTERED AT 14:49:43 ON 19 OCT 2007


FILE 'PASCAL' ENTERED AT 14:49:43 ON 19 OCT 2007


FILE 'DISSABS' ENTERED AT 14:49:43 ON 19 OCT 2007


L12 99 SEA ABB=ON PLU=ON ("TAREMI S"? OR "SHAHRIAR T"?)/AU
L13 3600 SEA ABB=ON PLU=ON ("XIE G"? OR "GAOLIAN X"?)/AU

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L14          62 SEA ABB=ON  PLU=ON  "HESSON T"?/AU
L15          64 SEA ABB=ON  PLU=ON  "DUCA J"?/AU
L16         492 SEA ABB=ON  PLU=ON  "STRICKLAND C"?/AU
L17         208 SEA ABB=ON  PLU=ON  "WINDSOR W"?/AU
L18        5291 SEA ABB=ON  PLU=ON  ("MADISON V"? OR "VINCENT M"?)/AU
L19       19729 SEA ABB=ON  PLU=ON  "ZHANG R"?/AU
L20         682 SEA ABB=ON  PLU=ON  "REICHERT P"?/AU
L21      157099 SEA ABB=ON  PLU=ON  ("WANG Y"? OR "YAOLIN W"?)/AU
L22           0 SEA ABB=ON  PLU=ON  L12 AND L13 AND L14 AND L15 AND L16
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L23          27 S L12 AND (L13-L21)
L24         132 S L13 AND (L14-L21)
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L27          59 S L16 AND (L17-L21)
L28          57 S L17 AND (L18-L21)
L29          37 S L18 AND (L19-L21)
L30         603 S L19 AND (L20 OR L21)
L31           0 S L20 AND L21
L32         121 S (L12-L31) AND (HDM2 OR (HDM OR DM OR DOUBLE MINUTE)(5A)(
L33          16 S L32 AND ?CRYST?
L34          14 DUP REM L33 (2 DUPLICATES REMOVED)
```

L34 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:215609 CAPLUS Full-text
DOCUMENT NUMBER: 147:282099
TITLE: Effects of additive on the **nanocrystalline** Co-Ni alloy by jet electrodeposition
AUTHOR(S): Wang, Nan; Jing, Tianfu; Qiao, Guiying; **Wang, Yuhui**; Yang, Jun
CORPORATE SOURCE: Key Laboratory of Metastable Material Science and Technology, Material Science and Engineering College, Yanshan University, Qinhuangdao, 066004, Peop. Rep. China
SOURCE: Diandu Yu Huanbao (2006), 26(2), 7-10
CODEN: DYHUEU; ISSN: 1000-4742
PUBLISHER: Diandu Yu Huanbao Bianjibu
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB The **nanocryst**. Co-Ni alloys were prepared by jet electrodeposition in the nickel chloride and cobalt sulfate bath containing additive and the cathodic polarization curves of Co-Ni alloys were measured. Influence of additive on cathodic overpotential, current efficiency, the Co content, phase microstructure, grain size, microhardness, soft magnetic performance and surface morphol. of deposits were also investigated. The composition and technol. condition of Co-Ni alloy electrolyte comprises: CoSO4.7H2O 80gL-, NiCl2.6H2O 200gL-, H3BO3 30g/L, benzosulfimide 0 and 2.5g/L, PH=4±0.1, Jk 51A. **dm-2**, jet rate 5.52m/s, temperature of 40°C and time of 20min. Baths without any additive and with 2.5 g/L of additive are compared, the results show that the additive can increase cathodic overpotential and affect the kinetic process of Co and Ni electrodeposition. Cathodic overpotential increases from 3.594 V to 4.755 V, Co content and current efficiency have little change, but average grain size decreases from 12.8 nm to 5.5 nm, microhardness increases from Hv 423 to Hv 511, organic additive can improve the soft magnetic property of Co-Ni alloy.

L34 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2005:140668 CAPLUS Full-text
DOCUMENT NUMBER: 142:235231

TITLE: Soluble, stable form of human **Double Minute 2** protein, **hdm2**, amenable to **crystallization** and use for structure-based drug design

INVENTOR(S): **Taremi, Shahriar Shane; Xie, Gaolian; Hesson, Thomas; Duca, Jose S.; Strickland, Corey; Windsor, William T.; Madison, Vincent S.; Zhang, Rumin; Reichert, Paul**

PATENT ASSIGNEE(S): Schering Corporation, USA

SOURCE: U.S. Pat. Appl. Publ., 49 pp.
CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
|---|---|---|---|---|---|
| US 2005037383 | A1 | 20050217 | US 2004-822254 | | 20040409 |
| PRIORITY APPLN. INFO.: | | | US 2003-461787P | P | 20030410 |
| | | | US 2004-547265P | P | 20040224 |

AB The present invention relates to a soluble and stable form of human **Double Minute 2** protein, **Hdm2**.
The present invention further pertains to nucleic acids encoding these proteins. The present invention also relates to a process of obtaining specific samples of **Hdm2** that are amenable to forming homogeneous **crystals** for x-ray **crystallization** anal. and the **crystals** formed thereby. The present invention also pertains to methods of using the x-ray diffractable **crystals** in structure-based drug design to identify compds. that can modulate the activity of the protein. The present invention provides modified **Hdm2** proteins that are amenable to **crystallization** and are soluble in E. coli exts. The present invention further discloses a set of amino acid substitutions of the **Hdm2** protein that improve its solubility and/or stability without compromising its ability to bind p53. The present invention provides stable modified **Hdm2** proteins produced by introducing an amino acid substitution into one or more of a unique set of amino acid residues of **Hdm2**. The modified **Hdm2** proteins of the present invention have an improved solubility and form novel **crystals** that heretofore were unattainable with the wildtype **Hdm2** protein. In addition, the present invention provides two specific ligands for **Hdm2**, the acetylated tripeptides, Ac-6ClWAC3cE and Ac-6BrWAC3cE. These tripeptides can be used to bind the modified **Hdm2** proteins of the present invention to form a protein-ligand complex that is then **crystallized** Such x-ray diffractable **crystals** can be used for structure based drug design to identify antitumor drugs.

L34 ANSWER 3 OF 14 MEDLINE on STN DUPLICATE 2

ACCESSION NUMBER: 2004052377 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 14753362

TITLE: Effect of alkali pretreatment of wheat straw on the efficacy of exogenous fibrolytic enzymes.

AUTHOR: **Wang Y**; Spratling B M; ZoBell D R; Wiedmeier R D; McAllister T A

CORPORATE SOURCE: Agriculture and Agri-Food Canada Research Centre, Lethbridge, Alberta, T1J 4B1 Canada.

SOURCE: Journal of animal science, (2004 Jan) Vol. 82, No. 1, pp. 198-208.

Journal code: 8003002. ISSN: 0021-8812.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200408
ENTRY DATE: Entered STN: 3 Feb 2004
Last Updated on STN: 7 Aug 2004
Entered Medline: 6 Aug 2004

AB The effects of pretreating wheat straw with alkali on the efficacy of exogenous fibrolytic enzymes for improving straw digestibility were studied in vitro, in situ, and in vivo. In Exp. 1, untreated straw (US); alkali-treated (5% NaOH, wt/wt) straw (AS); and autoclaved, alkali-treated straw (AAS) were sprayed with 0 or 1.5 mg/g DM of enzyme mix (xylanase, beta-glucanase, carboxymethylcellulase, and amylase) and incubated for 30 h in buffered ruminal fluid (3 x 2 factorial arrangement). Enzymes increased ($P < 0.001$) gas production and the incorporation of 15N into microbial N at 4 h, more so with AS or AAS than with US ($P < 0.001$ for gas; $P < 0.05$ for 15N). In Exp. 2, US and AS were sprayed with enzymes at 0, 0.15, or 1.5 mg/g **DM** (2 x 3 factorial) and incubated ruminally in nylon bags for up to 80 h to determine the in situ DM disappearance (ISDMD). Interactive effects ($P < 0.05$) of pretreatment and enzymes were observed on all ruminal degradation parameters. Alkali increased the rate ($P < 0.01$) and extent ($P < 0.001$) of ISDMD irrespective of enzymes. Enzymes applied to US did not affect the extent of ISDMD, but they increased ($P < 0.01$) the extent of ISDMD when applied to AS. Substrates from Exp. 1 and 2 were incubated in acetate buffer for 24 h to measure the hydrolytic loss of DM and release of reducing sugars and phenolic compounds. Alkali pretreatment and enzymes each increased ($P < 0.001$) DM loss and the release of reducing sugars and, in combination, exerted synergistic effects ($P < 0.001$). Enzymes did not affect the release of phenolic compounds from the straw. In Exp. 3, total-tract digestibility of untreated and enzyme-treated (100 mL/kg DM) ammoniated straw was assessed using 32 beef cows in eight pens. Wrapped straw bales were injected with NH3 (3% [wt/wt], DM basis) 4 mo before the study; enzymes were applied immediately before feeding. Applying enzyme to ammoniated straw increased ($P < 0.05$) digestibilities of DM, OM, and total N but did not affect the intake of DM or digestibility of ADF. Pretreatment of straw with alkali enhanced the efficacy of exogenous enzymes, presumably by breaking esterified bonds and releasing phenolic compounds and/or by swelling the **crystalline** cellulose and enhancing enzyme penetration. Including enzymes that mimic alkali hydrolysis (e.g., esterases) in commercial feed additives could substantially improve the value of these products for ruminants.

L34 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:202295 CAPLUS Full-text
DOCUMENT NUMBER: 141:270331
TITLE: Synthesis, **crystal** structure and nonlinear optical properties of a cluster compound containing the bipy ligand
AUTHOR(S): Zhou, Jian-Liang; Li, Yi-Zhi; Zheng, He-Gen; Xin, Xin-Quan; Yin, Tao; **Wang, Yu-Xiao**; Song, Ying-Lin
CORPORATE SOURCE: Coordination Chemistry Institute, State Key Laboratory of Coordination Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China
SOURCE: Transition Metal Chemistry (Dordrecht, Netherlands) (2004), 29(2), 185-188
CODEN: TMCHDN; ISSN: 0340-4285

PUBLISHER: Kluwer Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:270331
AB The [MoO0.75S3.25Cu3Cl(bipy)2] complex was synthesized for nonlinear optical studies by the reaction of (NH4)2[MoOS3], CuCl and bipy in CH2Cl2 solution A single **crystal** x-ray anal. revealed that the complex consists of a nest-shaped core. The Mo atom is tetrahedrally coordinated by four S atoms, or three S atoms and one terminal O atom. There are two types of copper atom in the MoO0.75S3.25Cu3 aggregate: two copper atoms are tetrahedrally coordinated and another copper atom is trigonally coordinated. The 3rd-order nonlinear optical properties were studied by the Z-scan technique with 8 ns laser pulses at 532 nm. The cluster exhibits both optical self-focusing and optical nonlinear absorption (effectively n2 = 1.3 + 10-11 e s u., α2 = 1.2 + 10-10 m W-1 in a **2**.68 + 10-4 mol **dm** -3 CH2Cl2 solution).
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:201695 CAPLUS Full-text
DOCUMENT NUMBER: 140:11958
TITLE: Synthesis, **crystal** structure and non-linear optical properties of the heterobimetallic polymeric compound {[n-Bu4N][W2Ag3S8]}n
AUTHOR(S): Zhou, Jian-Liang; **Wang, Yu-Xiao; Wang, Yan**; Song, Ying-Lin; Zheng, He-Gen; Li, Yi-Zhi; Yang, Lan-Ping; Xin, Xin-Quan
CORPORATE SOURCE: State Key Laboratory of Coordination Chemistry, Coordination Chemistry Institute, Nanjing University, Nanjing, 210093, Peop. Rep. China
SOURCE: CrystEngComm (2003), 5, 62-64
CODEN: CRECF4; ISSN: 1466-8033
URL: http://www.rsc.org/CFCart/displayarticleeonfree.cfm?article=8%2D9%223%24%5DVZB%214%2E%5FL1%286%2COZ5%3D87PE%40%3D29%23%3C%0A
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal; (online computer file)
LANGUAGE: English
AB The heterobimetallic, polymeric compound was synthesized by the reaction of (NH4)2WS4 and AgBr with Bu4NBr in CH2Cl2 solution under a purified nitrogen atmospheric using standard Schlenk techniques. The **crystals** were characterized by elemental anal., IR and single-**crystal** x-ray **crystallog**. The polymeric anion has a hanging ladder-like polymeric chain which can also be described as double helical chains bridged by silver atoms. Its nonlinear optical properties (NLO) were investigated using Z-scan techniques with an 8 ns pulsed laser at 532 nm, and the cluster also exhibits both strong nonlinear optical absorption and an optical self-defocusing effect (effective α2 = 1.11 + 10-10 m W-1, n2 = 3.67 + 10-18 m2 W-1, when measured with a 1.2 + 10-4 mol **dm**-3 DMF suspension).
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:764391 CAPLUS Full-text
DOCUMENT NUMBER: 136:69890
TITLE: Synthesis, structure and optical refractive effect of dibutyltin(IV) complex of [Ph2P(S)NP(S)Ph2]-

AUTHOR(S): Niu, Yunyin; **Wang, Yuxiao**; Song, Yinglin; Liu, Shixiong; Zheng, Hegen; Xin, Xinquan
CORPORATE SOURCE: State Key Laboratory of Coordination Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China
SOURCE: Chemistry Letters (2001), (10), 1004-1005
CODEN: CMLTAG; ISSN: 0366-7022
PUBLISHER: Chemical Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:69890

AB Reaction of Bu2SnCl2 with K[Ph2P(S)NP(S)Ph2] in MeCN gives the spirobimetallocyclic complex bis(tetraphenyldithioimidodiphosphinato)dibutyltin(IV), {Bu2Sn[Ph2P(S)N-P(S)Ph2]2} in which π-π stacking interactions by the Ph rings of the ligands exist. The nonlinear optical (NLO) properties were studied with an 8 ns-pulsed laser at 532 nm. Its optical responses to the incident light exhibit strong refractive effect with n2 = 5.4 + 10-18 m2 W-1 in a 1.2 + 10-4 mol **dm**-3 DMF solution

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:541980 CAPLUS Full-text
DOCUMENT NUMBER: 133:316762
TITLE: Studies on two interesting microporous polymeric clusters {[Et4N]2[MS4Cu4(CN)4]}n (M = Mo or W) with three-dimensional open frameworks: synthesis, structural characterization, strong optical non-linearities and large optical limiting properties
AUTHOR(S): Zhang, Chi; Song, Yinglin; Xu, Yan; Fun, Hoongkun; Fang, Guangyu; **Wang, Yuxiao**; Xin, Xinquan
CORPORATE SOURCE: Department of Physics, State Key Laboratory of Applied Optics, Harbin Institute of Technology, Harbin, 150001, Peop. Rep. China
SOURCE: Dalton (2000), (16), 2823-2829
CODEN: DALTFG; ISSN: 1470-479X
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Reactions combining stoichiometric amts. of (Et4N)2MS4 (M = Mo or W) and CuCN (1:4) in pyridine afforded interesting three-dimensional cluster polymers with open frameworks {[Et4N]2[MS4Cu4(CN)4]}n [M = Mo (1) or W (2)]. **Crystal** structure determination shows that the anionic MS4Cu4 units bridged by cyanide produce three-dimensional channels running down the **crystallog**. a axis. An alternative way to view this framework is in terms of the diamond structure, where C has alternately been replaced by a MS4Cu4 aggregate and C-C by two parallel cyanide bridging ligands. In these intersecting channels the shortest distances between Cu atoms along the b and c axes are 15.22 and 8.11 Å, resp. Non-linear optical properties of the two clusters were studied first with an 8 ns pulsed laser at 532 nm. These two clusters exhibit large optical limiting performance with limiting threshold values of 0.28 for 1, 0.15 J cm-2 for 2 resp. Both compds. show strong third-order NLO absorption effects (α2 1.5 + 10-9 1, 1.6 + 10-9 m W-1 2) and self-focusing performance (n2 1.84 + 10-16 1, 1.22 + 10-16 m2 W-1 2) in 3.64 + 10-5 1 and **2**.93 + 10-5 mol **dm**-3 **2** DMF solution sep. The corresponding effective NLO susceptibilities χ(3) are 4.58

+ 10-9 1 and 5.12 + 10-9 esu 2 while the corresponding hyperpolarizabilities (γ(1) = 1.15 + 10-29 and γ(2) = 1.26 + 10-29 esu) are also reported.

REFERENCE COUNT: 81 THERE ARE 81 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:186215 CAPLUS Full-text
DOCUMENT NUMBER: 134:320167
TITLE: Two interesting heterobimetallic compounds [MOS3Cu3(4-pic)6]·Br (M = Mo, W) with cationic cluster: synthesis, structural characterization, non-linear response and large optical limiting properties
AUTHOR(S): Zhang, Chi; Song, Yinglin; Xu, Yan; Jin, Guocheng; Fang, Guangyu; **Wang, Yuxiao**; Fun, Hoongkun; Xin, Xinquan
CORPORATE SOURCE: Physical Department, Harbin Institute of Technology, Harbin, 150001, Peop. Rep. China
SOURCE: Inorganica Chimica Acta (2000), 311(1-2), 25-32
CODEN: ICHAA3; ISSN: 0020-1693
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:320167

AB Two heterobimetallic cluster compds. [MOS3Cu3(4-pic)6]·Br (M = Mo 1, W 2) with cationic cluster skeleton and halide anion Br- synthesized by the reaction of (NH4)2MOS3, CuBr and 4-picoline (4-pic) are presented. Their structures were **crystallog**. determined and such nest-shaped cationic clusters, obtained for the 1st time, are interesting in comparison with the analogical nest-shaped clusters with a neutral skeleton or anionic skeleton. The nonlinear optical (NLO) properties of these two clusters were studied with an 8 ns pulsed laser at 532 nm. These two clusters exhibit large optical limiting abilities with limiting thresholds Fth = 0.18 J cm-2 (1) and Fth = 0.15 J cm-2 (2), resp. Both compds. show strong 3rd-order NLO absorption effects (α2-value of 1.6 + 10-10 m W-1 1, 2.8 + 10-10 m W-1 2) and self-focusing performance (n2-value of 4.56 + 10-11 esu 1, 4.62 + 10-11 esu 2) in 3.86 + 10-4 mol dm-3 1 and 8.89 + 10-4 mol **dm**-3 **2** DMF solution sep. The corresponding effective NLO susceptibilities χ(3) are 5.4 + 10-12 esu 1 and 5.5 + 10-12 esu 2 while the corresponding hyperpolarizabilities (γ(1) = 2.51 + 10-31 esu and γ(2) = 1.03 + 10-31 esu) are also reported.

REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:60270. CAPLUS Full-text
DOCUMENT NUMBER: 132:112360
TITLE: Comprehensive utilization of waste residue from cefotaxime sodium production
AUTHOR(S): Liu, Huiling; Zhou, Ding; Yue, Tongming; Zhao, Huihong; **Wang, Yan**
CORPORATE SOURCE: Harbin Institute of Technology, Harbin, 150001, Peop. Rep. China
SOURCE: Huanjing Wuran Yu Fangzhi (1999), 21(6), 17-19
CODEN: HWYFEW; ISSN: 1001-3865
PUBLISHER: Huanjing Wuran Yu Fangzhi Bianjibu
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB A process for recovering 2-mercaptobenzothiazole (M) with waste residue from cefotaxime sodium production and synthesizing **2**, 2-dibenzothiazolyl disulfide (**DM**) was developed, which comprises impregnating the waste residue in 2M Na2CO3 at 60° for 0.5 h, filtrating, adjusting pH to 3.5 with 2M H2SO4, filtrating, drying, dissolving the obtained coarse M in ethanol, **recrystg**. to obtain refined M, reacting the refined M with 3.5% NaNO2 at 60° with addition of 2.5% H2SO4 and introduction of air, and drying to obtain DM. The yield of DM reached 23.8%.

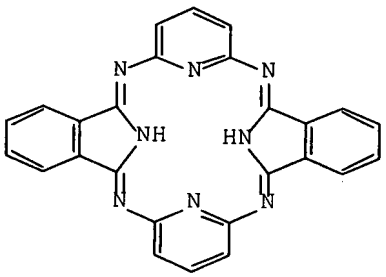
L34 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:247642 CAPLUS Full-text
DOCUMENT NUMBER: 122:119568
TITLE: Two heterocyclic 1,2,4,5-tetrazines
AUTHOR(S): Yeh, Mou-Yung; Huang, Chun-Yin; Ueng, Chuen-Her; **Wang, Yu**
CORPORATE SOURCE: Dep. Chem., Natl. Cheng Kung Univ., Tainan, Taiwan
SOURCE: Acta Crystallographica, Section C: Crystal Structure Communications (1994), C50(11), 1781-4
CODEN: ACSCEE; ISSN: 0108-2701
PUBLISHER: Munksgaard
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The title compds. 6-bromo-1,4-dihydro-1,4-di(o-tolyl)-1,2,4,5-tetrazin- 3(2H)-one (I) and 3,6-dibromo-1,4-dihydro-1,4-bis(p-methoxyphenyl)- 1,2,4,5-tetrazine (II) were prepared from 4-bromo-3-(o-tolyl)sydnone and 4-bromo-3-(p-methoxyphenyl)sydnone, resp., in THF under ultrasonic irradiation, and identified with IR, NMR, mass spectrum and elemental analyses. I is triclinic, space group P.hivin.1, with a 8.217(3), b 8.477(5), c 12.045(3) Å, 99.16(3), β 104.23(2), and γ 95.41(5)°; Z = **2**, dc = 1.50, **dm** = 1.51(3); R = 0.044, Rw = 0.026 for 1937 reflections. II is orthorhombic, space group Pbcn, with a 18.975(3), b 10.327(2), and c 8.569(3) °; Z = 4, dc = 1.80, dm = 1.79(3); R = 0.037, Rw = 0.028 for 875 reflections. Atomic coordinates are given. The heterocyclic rings of both compds. appear to lack aromatic character, as judged from the bond lengths.

L34 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:487600 CAPLUS Full-text
DOCUMENT NUMBER: 107:87600
TITLE: Structures of 4-acetyl-3-(p-tolyl)sydnone (1) and 4-acetyl-3-phenylsydnone oxime (2)
AUTHOR(S): Ueng, Chuen Her; **Wang, Y.**; Yeh, Mou Yung
CORPORATE SOURCE: Dep. Chem., Natl. Taiwan Univ., Taipei, Taiwan
SOURCE: Acta Crystallographica, Section C: Crystal Structure Communications (1987), C43(6), 1122-5
CODEN: ACSCEE; ISSN: 0108-2701
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Title compound 1 is orthorhombic, space group P212121, with a 10.995(4), b 15.158(2), and c 6.530(3) Å; dm = 1.3(1) and dc = 1.33 for Z = 4; final R = 0.038 for 855 reflections. Title compound 2 is monoclinic, space group P21/n, with a 7.871(1), b 7.741(2), c 16.880(5) Å, and β 96.20(**2**)°; **dm** = 1.4(1) and dc = 1.42 for final R = 0.041 for 1553 reflections. Atomic coordinates are given. The bond lengths of the sydnone ring are similar in both structures. The bond lengths N(1)-C(7) and C(7)-C(8) of 3,4-disubstituted sydnone derivs. are longer than the corresponding bond lengths in 3-substituted sydnone derivs., and the dihedral angles between the sydnone ring and the Ph ring of compds. 1 and 2 (68.4(2) and 78.6(1)°, resp.) are larger than those of 3-substituted sydnone derivs. This may be attributed to steric effects.

L34 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986:616975 CAPLUS Full-text
DOCUMENT NUMBER: 105:216975
TITLE: Structural relationships between the hemiporphyrazine macrocyclic ligand and its metal complexes. I. Saddle shaped neutral ligand hydrate, C26H16N8·H2O, and nickel complex, [Ni(C26H14N8)]
AUTHOR(S): Peng, Shie Ming; **Wang, Yu**; Ho, Tsang Feng; Chang, I Chen; Tang, Chia Pin; Wang, Chiung Jane
CORPORATE SOURCE: Dep. Chem., Natl. Taiwan Univ., Taipei, 107, Taiwan
SOURCE: Journal of the Chinese Chemical Society (Taipei, Taiwan) (1986), 33(1), 13-21
CODEN: JCCTAC; ISSN: 0009-4536
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB The title hydrated ligand I orthorhombic, space group Pnmm, with a 4.6142(3), b 14.7687(7), and c 15.0650(5) Å; **dm** = 1.46( **2**) and dc = 1.48 for Z = 2. The final R = 0.068 and Rw = 0.038. Ni(C26H14N8) is monoclinic, space group I2/c, with a 22.0437(11), b 3.7637(4), c 23.4742(11) Å, and β 92.7(1)°; **dm** = 1.68(**2**) and dc = 1.70 for Z = 4. The final R = 0.039 and Rw = 0.025. The overall conformations of I and the Ni complex are similar, both have a pronounced saddle shape. The Ni-N bond distances are 1.861(2) and 1.998(2) Å. The distances from N atoms to the center of the ring in I are 2.020(3) and 2.220(3) Å, which are significantly longer than those of Ni complex. A detailed comparison about the core size with similar ligand is presented. Atomic coordinates are given.

L34 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:551318 CAPLUS Full-text
DOCUMENT NUMBER: 103:151318
TITLE: The **crystal** structure of lanthanum rhodium boride (La1-xRh3B2)
AUTHOR(S): Ku, H. C.; Ma, L. J.; Tai, M. F.; **Wang, Y.** ; Horng, H. E.
CORPORATE SOURCE: Dep. Phys., Natl. Tsing Hua Univ., Hsinchu, 300, Taiwan
SOURCE: Journal of the Less-Common Metals (1985), 109(2),

219-28
CODEN: JCOMAH; ISSN: 0022-5088
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The **crystal** structure of La1-xRh3B2 was determined by single- **crystal** x-ray anal. La0.81Rh3B2 **crystallized** in hexagonal space group P6/mmm, with a 5.642(1) and c 8.546(2) Å; **dm** = 9.49 and dc = 9.37 for Z = 3. The structure was refined by full-matrix least squares to R = 0.054 for 536 reflections. The **crystal** structure is a disordered superstructure (vacancy distorted) of the LaRh3B2 phase with the CeCo3B2-type structure (a 5.480 and c 3.137 Å). The coordination nos. of La are (1.6La) + 12Rh + 6B and those of Rh atoms (3.2La) + 6Rh + 4B. The isolated B atoms have tetrakaidecahedral metal coordination (2.4La) + 6Rh; no B-B contact occurs. Four new ternary Rh borides with this disordered La1-xRh3B2-type structure are reported with the general formula RE1-xRh3B2 (x = 0.5; RE = La, Ce, Pr, or Nd). The relation between structural chemical and phys. properties (supercond., ferromagnetism, valence fluctuation) is discussed.

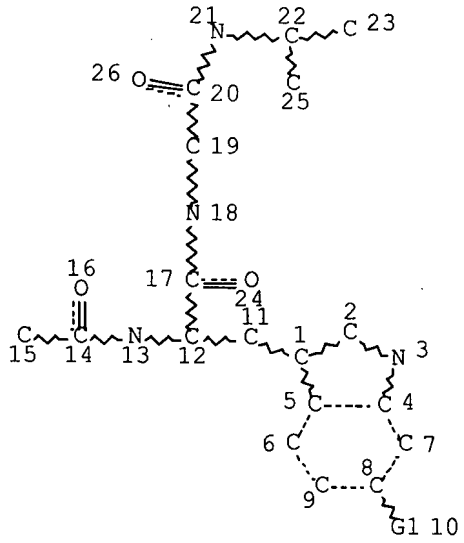
L34 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1984:638436 CAPLUS Full-text
DOCUMENT NUMBER: 101:238436
TITLE: Reinvestigation of the structure of potassium pyrosulfite, K2S2O5
AUTHOR(S): Chen, I Chia; **Wang, Yu**
CORPORATE SOURCE: Dep. Chem., Natl. Taiwan Univ., Taipei, Taiwan
SOURCE: Acta Crystallographica, Section C: Crystal Structure Communications (1984), C40(11), 1780-1
CODEN: ACSCEE; ISSN: 0108-2701
DOCUMENT TYPE: Journal
LANGUAGE: English

AB K2S2O5 is monoclinic, space group P21/m, with a 6.921(1), b 6.160(1), c 7.537(1) Å, and β 102.79(1)°; **dm** = **2**.36 and dc = **2**.356 for Z = 2. The final R = 0.040 for 780 reflections. The mol. contains a plane symmetry (S-S-O) and a long S-S bond (2.2194(9) Å) between the thionite and thionate groups. The S-O distances are 1.4870(8) Å in the thionite group and 1.453(1) and 1.4602(8) Å in the thionate group. A comparison with other compds. containing the S2O52- ion is made. Atomic coordinates are given.

FILE 'HOME' ENTERED AT 14:56:20 ON 19 OCT 2007

L1 STR



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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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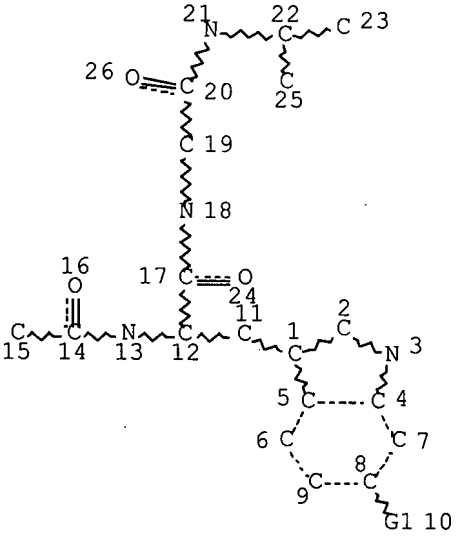
NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE
L3 2 SEA FILE=REGISTRY SSS FUL L1

L1 STR



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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

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NUMBER OF NODES IS  26

STEREO ATTRIBUTES: NONE

ATTRIBUTES SPECIFIED AT SEARCH-TIME:
ECLEVEL IS LIM ON ALL NODES
ALL RING(S) ARE ISOLATED

L8            1 SEA FILE=MARPAT SSS FUL L1 (MODIFIED ATTRIBUTES)

     FILE 'REGISTRY' ENTERED AT 14:39:49 ON 19 OCT 2007
L1              STR
L2            1 SEA SSS SAM L1
                D SCAN
                D QUE
L3            2 SEA SSS FUL L1

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L4            1 SEA ABB=ON  PLU=ON  L3

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     FILE 'CAPLUS' ENTERED AT 14:47:49 ON 19 OCT 2007
                D IBIB ABS HITSTR

     FILE 'CAOLD' ENTERED AT 14:47:49 ON 19 OCT 2007
L5            0 SEA ABB=ON  PLU=ON  L3

     FILE 'MEDLINE, BIOSIS, EMBASE' ENTERED AT 14:48:04 ON 19 OCT 2007
L6            0 SEA ABB=ON  PLU=ON  L3

     FILE 'MARPAT' ENTERED AT 14:48:08 ON 19 OCT 2007
L7            0 SEA SSS SAM L1 (MODIFIED ATTRIBUTES)
L8            1 SEA SSS FUL L1 (MODIFIED ATTRIBUTES)
                D QUE STAT

     FILE 'CAPLUS' ENTERED AT 14:49:04 ON 19 OCT 2007
L9            1 SEA ABB=ON  PLU=ON  L8
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L11           1 SEA ABB=ON  PLU=ON  L10
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L12          99 SEA ABB=ON  PLU=ON  ("TAREMI S"? OR "SHAHRIAR T"?)/AU
L13        3600 SEA ABB=ON  PLU=ON  ("XIE G"? OR "GAOLIAN X"?)/AU
L14          62 SEA ABB=ON  PLU=ON  "HESSON T"?/AU
L15          64 SEA ABB=ON  PLU=ON  "DUCA J"?/AU
L16         492 SEA ABB=ON  PLU=ON  "STRICKLAND C"?/AU
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L17          208 SEA ABB=ON  PLU=ON  "WINDSOR W"?/AU
L18         5291 SEA ABB=ON  PLU=ON  ("MADISON V"? OR "VINCENT M"?)/AU
L19        19729 SEA ABB=ON  PLU=ON  "ZHANG R"?/AU
L20          682 SEA ABB=ON  PLU=ON  "REICHERT P"?/AU
L21       157099 SEA ABB=ON  PLU=ON  ("WANG Y"? OR "YAOLIN W"?)/AU
L22            0 SEA ABB=ON  PLU=ON  L12 AND L13 AND L14 AND L15 AND L16
                 AND L17 AND L18 AND L19 AND L20 AND L21
L23           27 SEA ABB=ON  PLU=ON  L12 AND ((L13 OR L14 OR L15 OR L16 OR
                 L17 OR L18 OR L19 OR L20 OR L21))
L24          132 SEA ABB=ON  PLU=ON  L13 AND ((L14 OR L15 OR L16 OR L17 OR
                 L18 OR L19 OR L20 OR L21))
L25            8 SEA ABB=ON  PLU=ON  L14 AND ((L15 OR L16 OR L17 OR L18 OR
                 L19 OR L20 OR L21))
L26           21 SEA ABB=ON  PLU=ON  L15 AND ((L16 OR L17 OR L18 OR L19 OR
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L27           59 SEA ABB=ON  PLU=ON  L16 AND ((L17 OR L18 OR L19 OR L20 OR
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L28           57 SEA ABB=ON  PLU=ON  L17 AND ((L18 OR L19 OR L20 OR L21))
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L30          603 SEA ABB=ON  PLU=ON  L19 AND (L20 OR L21)
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                 OR (HDM OR DM OR DOUBLE MINUTE)(5A)(2 OR II) OR HDMII)
L33           16 SEA ABB=ON  PLU=ON  L32 AND ?CRYST?
L34           14 DUP REM L33 (2 DUPLICATES REMOVED)
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            D QUE L8


FILE HOME

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DICTIONARY FILE UPDATES:  18 OCT 2007  HIGHEST RN 950981-10-9

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FILE LAST UPDATED: 18 Oct 2007 (20071018/UP). FILE COVERS 1950 TO DA

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FILE COVERS 1926 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1926 TO DATE.

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FILE EMBASE
FILE COVERS 1974 TO 18 Oct 2007 (20071018/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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FILE CONTENT: 1961-PRESENT VOL 147 ISS 16 (20071012/ED)

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CA 2537669 24 AUG 2007

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